

<b>Form PTO-1449</b>  <b>Information Disclosure Citation</b>				Attorney Docket P65684US1		Application No. (NEW)	
				Applicant Robert R. STEUER et al.			
				Filing Date December 9, 2003		Group Art Unit (not yet assigned)	

U.S. Patent Documents							
Examiner Initial		Patent Number	Date	Name	Class	Sub-Class	Filing Date
MP	AA	H1,114	12/1992	Schweitzer et al.			
MP	AB	3,638,640	02/01/1972	Shaw			
MP	AC	3,880,151	04/29/1975	Nilsson et al.			
MP	AD	4,014,321	03/29/1977	March			
MP	AE	4,081,372	03/28/1978	Atkin et al.			
MP	AF	4,086,915	05/02/1978	Kofsky et al.			
MP	AG	4,167,331	09/11/1979	Nielsen			
MP	AH	4,181,610	01/01/1980	Shintani et al.			
MP	AI	4,223,680	09/23/1980	Jöbsis			
MP	AJ	4,266,554	05/12/1981	Hamaguri			
MP	AK	4,295,470	10/20/1981	Shaw et al.			

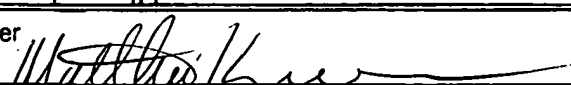
  

Foreign Patent Documents							
		Document Number	Date	Country	Class	Sub-Class	Translation
MP	AL	EP104772B1	04/1984	Europe			Yes No
MP	AM	EP160768B1	11/1985	Europe			Yes No
MP	AN	WO 86/06946	12/1986	WIPO			Yes No
MP	AO	WO 89/01758	03/1989	WIPO			Yes No
MP	AP	WO 93/06456	04/1993	WIPO			Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)		
MP	AR	J.P. Payne and J.W. Severinghaus, Eds., <i>Pulse Oximetry</i> , Chapters 1 and 2 (©1986).
MP	AS	John D. Bower and Thomas G. Coleman, <i>Circulatory Function During Chronic Hemodialysis</i> , Vol. XV <i>Trans. Amer. Soc. Artif. Int. Organs</i> , 1969, 373-377.
MP	AT	Larry Reynolds, C. Johnson, A. Ishimaru, "Diffuse reflectance from a finite blood medium: applications to the modeling of fiber optic catheters," Sept. 1976, Vol. 15, No. 9, <i>Applied Optics</i> , pp. 2059-2067.

Examiner 	Date Considered 1/6/05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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U.S. Patent Documents							
Examiner Initial		Patent Number	Date	Name	Class	Sub-Class	Filing Date
<i>MK</i>	BA	4,416,285	11/22/1983	Shaw et al.			
<i>MK</i>	BB	4,446,871	05/08/1984	Imura			
<i>MK</i>	BC	4,653,498	03/31/1987	New, Jr. et al.			
<i>MK</i>	BD	4,655,225	04/07/1987	Dahne et al.			
<i>MK</i>	BE	4,685,464	08/11/1987	Goldberger et al.			
<i>MK</i>	BF	4,714,080	12/22/1987	Edgar, Jr., et al.			
<i>MK</i>	BG	4,770,179	09/13/1988	New et al.			
<i>MK</i>	BH	4,805,623	02/21/1989	Jöbsis			
<i>MK</i>	BI	4,819,752	04/11/1989	Zelin			
<i>MK</i>	BJ	4,821,734	04/18/1989	Koshino			
<i>MK</i>	BK	4,824,242	04/25/1989	Frick et al.			

Foreign Patent Documents							
		Document Number	Date	Country	Class	Sub-Class	Translation
<i>MK</i>	BL	EP 0 529 412	03/03/1993	EPO			Yes No
	BM						Yes No
	BN						Yes No
	BO						Yes No
	BP						Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)		
<i>MK</i>	BR	R.N. Greenwood, C. Aldridge, L. Goldstein, L.R.I. Baker and W.R. Cattell, "Assessment of arteriovenous fistulae from pressure and thermal dilution studies: clinical experience in forearm fistulae," <i>Clinical Nephrology</i> , Vol. 23, NO. 4-1985, pp. 189-197.
<i>MK</i>	BS	R.N. Greenwood, C. Aldridge and W.R. Cattell, "Serial blood water estimations and in-line blood viscometry: the continuous measurement of blood volume during dialysis procedures," <i>Clinical Science</i> (1984)66, pp. 575-583.
<i>MK</i>	BT	C. Aldridge, R.N. Greenwood, W.R. Cattell and R.V. Barrett, "The assessment of arteriovenous fistulae created for haemodialysis from pressure and thermal dilution measurements," <i>Journal of Medical Engineering &amp; Technology</i> , Vol. 8, No. 3, (May/June), pp. 118-124.

Examiner <i>Matthew Kline</i>	Date Considered <i>1/6/05</i>
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U.S. Patent Documents							
Examiner Initial		Patent Number	Date	Name	Class	Sub-Class	Filing Date
<i>my</i>	CA	4,825,872	05/02/1989	Tan et al.	X	X	
<i>my</i>	CB	4,825,879	05/02/1989	Tan et al.			
<i>my</i>	CC	4,832,484	05/23/1989	Aoyagi et al.			
<i>my</i>	CD	4,863,265	09/05/1989	Flower et al.			
<i>my</i>	CE	4,867,557	09/19/1989	Takatani et al.			
<i>my</i>	CF	4,920,972	05/01/1990	Frank et al.			
<i>my</i>	CG	4,925,299	05/15/1990	Meisberger et al.			
<i>my</i>	CH	5,028,787	07/02/1991	Rosenthal et al.			
<i>my</i>	CI	5,035,243	07/30/1991	Muz			
<i>my</i>	CJ	5,048,524	09/17/1991	Bailey			
<i>my</i>	CK	5,054,487	10/08/1991	Clarke			

Foreign Patent Documents							
		Document Number	Date	Country	Class	Sub-Class	Translation
	CL						Yes No
	CM						Yes No
	CN						Yes No
	CO						Yes No
	CP						Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)		
<i>my</i>	CR	L. Goldstein, L. Pavitt, R.N. Greenwood, C. Aldridge, L.R.I. Baker and W.R. Cattell, "The Assessment of Arteriovenous Fistulae From Pressure and Recirculation Studies," <i>ProcEDTNA-ERCA</i> (1985) Vol. 14., pp. 207-215.
<i>my</i>	CS	R.N. Greenwood, C. Aldridge, L. Goldstein, L.R.I. Baker and W.R. Cattell, "Assessment of Arteriovenous Fistulas From Pressure and Recirculation Studies: Clinical Experience In 215 Upper Limb Fistulas," <i>ProcEDTA-ERA</i> (1985), Vol. 22, pp. 296-302.
<i>dit</i>	CT	Joseph M. Schmitt, James D. Meindl and Frederick G. Mihm, "An Integrated Circuit-Based Optical Sensor for In Vivo Measurement of Blood Oxygenation," <i>IEEE Transactions On Biomedical Engineering</i> , Vol. BME-33, No. 21, Feb. 1986, pp. 98-107.

Examiner <i>Matthew He</i>	Date Considered <i>1/6/05</i>
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U.S. Patent Documents							
Examiner Initial		Patent Number	Date	Name	Class	Sub-Class	Filing Date
<i>MK</i>	DA	5,057,695	10/15/1991	Hirao et al.	X	X	
<i>MK</i>	DB	5,058,587	10//1991	Kohno et al.			
<i>MK</i>	DC	5,059,394	10/22/1991	Phillips et al.			
<i>MK</i>	DD	5,066,859	11/19/1991	Karkar et al.			
<i>MK</i>	DE	5,092,836	03/03/1992	Polaschegg			
<i>MK</i>	DF	5,101,825	04/07/1992	Gravenstein et al.			
<i>MK</i>	DG	5,111,817	05/12/1992	Clark et al.			
<i>MK</i>	DH	5,127,406	07/07/1992	Yamaguchi			
<i>MK</i>	DI	5,137,023	08/11/1992	Mendelson et al.			
<i>MK</i>	DJ	5,158,091	10/27/1992	Butterfield et al.			
<i>MK</i>	DK	5,193,543	03/16/1993	Yelderman			

Foreign Patent Documents							
		Document Number	Date	Country	Class	Sub-Class	Translation
	DL						Yes No
	DM						Yes No
	DN						Yes No
	DO						Yes No
	DP						Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)		
<i>MK</i>	DR	Joseph M. Schmitt, Fred G. Mihm and James Meindl, <i>New Methods for Whole Blood Oximetry</i> , Annals of Biomedical Engineering, Vol., 14, pp. 35-52, 1986.
<i>MK</i>	DS	Mark R. Arnfield, J. Tulip and Malcolm McPhee, "Optical Propagation in Tissue With Anisotropic Scattering," <i>IEEE Transactions on Biomedical Engineering</i> , Vol. 35, No. 5, May 1988, pp. 372-381.
<i>MK</i>	DT	N.M. Krivitski, "Theory and validation of access flow measurements by dilution technique during hemodialysis," <i>Kidney Int</i> 48:244-250, 1995

Examiner <i>Matthew L...</i>	Date Considered <i>1/6/05</i>
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U.S. Patent Documents							
Examiner Initial	Patent Number	Date	Name	Class	Sub-Class	Filing Date	
mk	EA	5,237,999	Von Berg				
mk	EB	5,285,783	Secker				
mk	EC	5,351,686	Steuer et al.				
mk	ED	5,456,253	Steuer et al.				
mk	EE	5,499,627	Steuer et al.				
mk	EF	5,520,177	Ogawa et al.				
mk	EG	5,551,422	Simonsen et al.				
mk	EH	5,595,182	Krivitski				
mk	EI	5,785,657	Breyer et al.				
mk	EJ	5,797,841	Delonzor et al.				
mk	EK	5,803,908	Steuer et al.				

Foreign Patent Documents							
Document Number	Date	Country	Class	Sub-Class	Translation		
EL					Yes No		
EM					Yes No		
EN					Yes No		
EO					Yes No		
EP					Yes No		

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)		
mk	ER	N.M. Krivitski, "Novel method to measure access flow during hemodialysis by ultrasound velocity dilution technique," <i>ASAIO J</i> 41:M741-M745, 1995
mk	ES	T.A. Depner and N.M. Krivitski, "Clinical measurement of blood flow in hemodialysis access fistulae and grafts by ultrasound dilution," <i>ASAIO J</i> 41:M745-M749, 1995)
mk	ET	D. Yazar et al., "Ultrafiltration method for measuring vascular access flow rates during hemodialysis," <i>Kidney Int.</i> , 56: 1129-1135 (1999)

Examiner <i>Matthew H. Lee</i>	Date Considered <i>1/6/05</i>
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U.S. Patent Documents							
Examiner Initial		Patent Number	Date	Name	Class	Sub-Class	Filing Date
<i>WRC</i>	FA	5,817,009	10/06/1998	Rosenheimer et al.	X	X	
<i>WRC</i>	FB	5,974,337	10/26/1999	Kaffka et al.			
<i>WRC</i>	FC	6,041,246	03/21/2000	Krivitski et al.			
<i>WRC</i>	FD	6,117,099	09/12/2000	Steuer et al.			
<i>WRC</i>	FE	6,153,109	11/28/2000	Krivitski			
<i>WRC</i>	FF	6,167,765	01/02/2001	Weitzel			
<i>WRC</i>	FG	6,189,388	02/20/2001	Cole et al.			
<i>WRC</i>	FH	6,210,591	04/03/2001	Krivitski			
<i>WRC</i>	FI	6,452,371	09/17/2002	Brugger			
	FJ						
	FK						

Foreign Patent Documents							
		Document Number	Date	Country	Class	Sub-Class	Translation
	FL						Yes No
	FM						Yes No
	FN						Yes No
	FO						Yes No
	FP						Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)		
<i>WRC</i>	FR	N.M. Krivitski et al., "Saline Release Method to Measure Access Flow (AF) by Ultrasound Dilution during Hemodialysis," <i>JASN Abstracts</i> , 8:164A, 1997
	FS	
	FT	

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